

Western Digital (250-0100/1/2/3/4) Drive Parameters Faxback Doc. # 2896
 Hard Disk Upgrade Kits

Catalog #/Model #	Recommended Parameters	Total Sectors
250-0100 Caviar AC1210	989 x 12 x 35 *	415,380
250-0101 Caviar AC2340	1010 x 12 x 55 *	666,600
250-0102 Caviar AC2420	989 x 15 x 56 *	830,760
250-0103 Caviar AC2540	1048 x 16 x 63 *	1,056,384
250-0104 Caviar AC31000	2100 x 16 x 63 *	2,116,800

* (Cylinders x Heads x Sector/Track)

Drive	Cylinders	Heads	Sectors/Track	Total Sectors
212 MByte	989	12	35	415,380 (212.7 Mbyte)
	987	12	35	414,540 (212.2 Mbyte)
	987	10	42	414,540 (212.2 Mbyte)
	882	10	47	414,540 (212.2 Mbyte)
	735	12	47	414,540 (212.2 Mbyte)
	658	14	45	414,540 (212.2 Mbyte)
340 MByte	1010	12	55	666,600 (341.3 Mbyte)
	1013	14	47	666,554 (341.3 Mbyte)
	807	14	59	666,582 (341.3 Mbyte)
	952	14	50	666,400 (341.2 Mbyte)
420 MByte	989	15	56	830,760 (425.3 Mbyte)
	989	14	60	830,760 (425.3 Mbyte)
	1023	14	58	830,676 (425.3 Mbyte)
	944	16	55	830,720 (425.3 Mbyte)
540 MByte	*1048	16	63	1,056,384 (540.8 Mbyte)
	1024	16	63	1,032,192 (528.5 Mbyte)
1 Gigabyte	**2100	16	63	CMOS 1033 Mbytes
				CHKDSK 1083.7 Mbytes

*See Note 1

**See Note 2

Note 1: At this time, the DOS/BIOS system limitation for maximum allowable usable drive size is 528 Mbytes (1024 cylinders). Many systems with AUTO setup options for drive type selection make use of the Identify Drive command to automatically determine the number of cylinders, heads, and sectors per track. The AC2540 returns default parameters of 1048 cylinders. Most systems will correctly truncate the AC2540 from 1048 to 1024 cylinders to achieve the maximum usable disk space under DOS (528 Mbytes). However, there are some systems that will incorrectly truncate to only 24 cylinders, allocating only 12 Mbytes of usable disk space.

Systems that have AUTO drive type options usually also have USER DEFINED drive type options. If the AUTO drive type does not work, the USER DEFINED

drive type option can be used to manually specify 1024 cylinders, 16 heads, and 63 sectors per track.

If the AUTO drive type option does not work and your system does not have a USER DEFINED option in the system setup, Western Digital can provide you with the WDX utility to change the size the AC2540 reports to the host system from 540 Mbytes to 528 Mbytes.

You may need to partition your drive(s) to overcome certain limitations of your MS DOS version. Partitioning allows you to divide your disk to multiple partitions, which function as separate disk drives. Use the MS-DOS FDISK.COM utility to display a series of menus that help you partition your hard disk for MS DOS.

Note 2: The Western Digital one Gigabyte IDE Hard Drive comes with special Ontrack Disk Management Software. This Software includes a driver to allow 32 bit access from Windows 3.1. This software also allows for creation of partitions of up to 2 Gigabytes.

(ALL/jlc-08/08/94)